	Application No.	Applicant(s)
Notice of Allowability	10/783,306	DOERR, CHRISTOPHER RICHARD
	Examiner	Art Unit
	Kianni C. Kaveh	2883
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apport or other appropriate communication (GHTS. This application is subject to	plication. If not included will be mailed in due course. THIS
1. This communication is responsive to 2/20/2004.		
2. 🔀 The allowed claim(s) is/are <u>1-5,12,13,16 and 17</u> .		
3. The drawings filed on 20 February 2004 are accepted by the	ne Examiner.	
 4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application No	
Applicant has THREE MONTHS FROM THE "MAILING DATE" on noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	ENT of this application.	
 A SUBSTITUTE OATH OR DECLARATION must be submi INFORMAL PATENT APPLICATION (PTO-152) which give 	itted. Note the attached EXAMINER es reason(s) why the oath or declara	S AMENDMENT or NOTICE OF tion is deficient.
6. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.	
(a) including changes required by the Notice of Draftspers		948) attached
1) hereto or 2) to Paper No./Mail Date		
(b) including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the C	ffice action of
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on the drawing header according to 37 CFR 1.121(c	ngs in the front (not the back) of
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT F 	sit of BIOLOGICAL MATERIAL n	nust be submitted. Note the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal P	atent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	(PTO-413),
3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0		nent/Comment
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	 8. ☑ Examiner's Stateme 9. ☐ Other 	nt of Reasons for Allowance
and	KAVEH KIANNI PRIMARY EXAMINER	

U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04) Application/Control Number: 10/783,306

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Applicant's election <u>without traverse</u> of claims 1-5, 12-13 and 16-17 in a telephone conversation on July 26, 2005 with Mr. Wall is acknowledged. The reason for the Restriction is as follows:

This application contains claims directed to the following patentably distinct species of the claimed invention: I: Group claims 1-5, 12-13 and 16-17 directed to sets of waveguides in which the adjacent waveguides of each set having a path-length difference related to a non-zero integer multiple of a wavelength located between the center wavelengths of the adjacent waveguides; II: Group claims 6-11 and 14-15 directed to a first and second waveguide grating routers and sets of waveguides in which the adjacent waveguides of each set having a path-length difference (Lm)-L(m-1), as specified in the claim; III: Group claim 18 is directed to a first means, second means and third means for multiplexing optical signals, supporting transmission of the signals and receiving of the signals.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable.

Currently, none of the claims are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of

the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

During a telephone conversation with Mr. Wall on July 26, 2005 a provisional election was made without traverse to prosecute the invention of Group I, claims 1-5, 12-13 and 16-17. Affirmation of this election must be made by applicant in replying to this Office action. Claims 6-11 and 14-15 and 18 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Eamon J. Wall on July 26, 2005.

This examiner's Amendment is allowed because the applicant's election of claims 1-5, 12-13 and 16-17 has been without traverse. Thus the non-elected claims 6-11 and 14-15 and 18 are cancelled by the examiner in order to make the case allowed.

Please cancel claims 6-11 and 14-15 and 18

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Reason for Allowance

Claims 1-5, 12-13 and 16-17 are allowed for the following reasons:

The instant application is deemed to be directed to a nonobvious improvement over the invention patented in (Doer et al. 'Integrated Band Demultiplexer Using Waveguide Grating Routers', IEEE PHOTONICS TECHNOLXY LETTERS. VOL. 15. No. 8., AUGUST 2003, pages 1088-1090), as well as in US Pat. No. (Hansen et al., US 20020063928 A1).

Claim 1 is allowed because the prior art of record, taken alone or in combination, fails to disclose or render obvious wherein the plurality of waveguides is partitioned into at least two sets of waveguides, each set of waveguides corresponding to a particular passband in the band filter, the waveguides in a set having unequal path lengths, and the adjacent waveguides within each set having a path-length difference related to a non-zero integer multiple of a wavelength located between the center wavelengths of the adjacent waveguides in combination with the rest of the limitations of the base claim.

Claims 2-5, 12-13 and 16-17 depend on claim 1 and therefore they are also allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Citation of Relevant Prior Art

Prior art made of record and not relied upon is considered pertinent to applicant's disclosure. In accordance with MPEP 707.05 the following references are pertinent in rejection of this application since they provide substantially the same information disclosure as this patent does. These references are:

Yoo 6519062

Doerr et al. 6240118

Glance 5488500

These references are cited herein to show the relevance of the apparatus/methods taught within these references as prior art.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to K. Cyrus Kianni whose telephone number is (571) 272-2417.

The examiner can normally be reached on Monday through Friday from 8:30 a.m. to 6:00 p.m. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Frank Font, can be reached at (571) 272-2415.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231

or faxed to:

(703) 872-9306 (for formal communications intended for entry)

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or:

Hand delivered responses should be brought to Crystal Plaza 4, 2021 South Clark Place, Arlington, VA., Fourth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application should be directed to the Group Receptionist whose telephone number is (703) 308-0956.

K. Cyrus Kianni

Primary Patent Examiner

Group Art Unit 2883

August 4, 2005

KAVEH KIANNI PRIMARY EXAMINES